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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,625	01/28/2004	Srinivasamohan Narayanan	SL1207	5653
BP America Ir	7590 01/18/2007		EXAM	IINER
Docket Clerk BP Legal, M.C 5 East 4101 Winfield Road			MENZ, DOUGLAS M	
			ART UNIT	PAPER NUMBER
Warrenville, Il	L 60555	•	2891	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
2 MONTUS		01/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	10/767,625	NARAYANAN					
Office Action Summary	Examiner	Art Unit					
	Douglas M. Menz	2891					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply rill apply and will expire SIX (6) MONTHS cause the application to become ABAN	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. \$ 133)					
Status							
1)⊠ Responsive to communication(s) filed on 16 Oc	ctoher 2006						
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, _	,—						
closed in accordance with the practice under E							
Disposition of Claims							
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.							
4a) Of the above claim(s) <u>1-16,22-27,29 and 30</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>17-21,28 and 31</u> is/are rejected.							
7) Claim(s) is/are objected to.							
	——————————————————————————————————————						
Application Papers	·						
9) The specification is objected to by the Examiner.							
	10)☑ The drawing(s) filed on <u>28 January 2004</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Exit							
Priority under 35 U.S.C. § 119	arminer. Note the attached O	THICE ACTION OF TOMIN PTO-132.					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
		ceived in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the continue continue action.							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application							
Paper No(s)/Mail Date <u>7/17/06</u> . 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17-21, 28 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Safir (US 5665175).

Regarding claim 17, Safir discloses a process for making a photovoltaic device using a substrate comprising silicon doped with a first dopant, the process comprising the steps of:

- (a) forming a first layer (4, Fig. 3) of the substrate at a front surface and at least one edge surface, the first layer comprising a second dopant of a conductivity type opposite the first dopant (Cols. 3-4);
- (b) disposing over the first layer a surface coating (3, Figs. 3-4) such that a back surface of the substrate is free or substantially free of the surface coating (Cols. 3-4 and 7, note original layer 3 is replaced by silicon nitride or other material for specific barrier layers Col. 7, lines: 10-20); and
- (c) removing the second dopant from the back surface such that the back surface is free or substantially free of the second dopant (Fig. 4 and Cols. 4-5).

Regarding claim 18, Safir further discloses the step of texturing the substrate (112, Fig. 1 and Col. 3).

Regarding claim 19, Safir further discloses removing the texture from the back surface such that the back surface is substantially smooth (Fig. 4).

Regarding claim 20, Safir further discloses the step of forming a back surface field (10, Fig. 6 and Cols. 5-6).

Regarding claim 21, Safir further discloses wherein the surface coating comprises silicon nitride (Col. 7, lines: 15-20).

Regarding claim 28, Safir further discloses wherein the surface coating is formed such that only a back surface of the substrate is free or substantially free of the surface coating (Fig. 4).

Regarding claim 31, Safir further discloses wherein, in the step of disposing over the first layer a surface coating such that a back surface of the substrate is free or substantially free of the surface coating, the surface coating is also formed on the periphery of the back surface (Fig. 4).

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Response to Arguments

Applicant's arguments with respect to claims 17-21 and 28 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M. Menz whose telephone number is 571-272-1877. The examiner can normally be reached on M-F 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DM

Doug Menz 1667